(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization

International Bureau



. | \$500 CHARDA IN CHARD HOW COM ROLL IN HE CHARD COME HOW HAD NOT USE CONTROL TO A LITTLE TO A

(43) International Publication Date 27 January 2005 (27.01.2005)

PCT

(10) International Publication Number WO 2005/008225 A1

(51) International Patent Classification⁷: G01N 21/84, 33/49, C12Q 1/06

(21) International Application Number:

PCT/KR2004/001735

(22) International Filing Date: 13 July 2004 (13.07.2004)

(25) Filing Language:

Korean

(26) Publication Language:

English

(30) Priority Data: 10-2003-0049406

18 July 2003 (18.07.2003) Ki

(71) Applicant (for all designated States except US): DIGITAL BIO TECHNOLOGY [KR/KR]; Seoul National University Institute of Advanced, Machinery 1304, San 56-1 Shinlim, Kwanak, Seoul, 151-742 (KR).

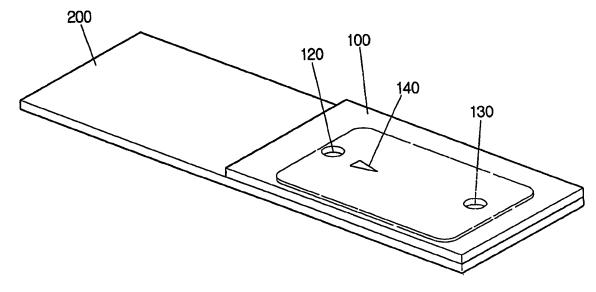
(72) Inventors; and

(75) Inventors/Applicants (for US only): CHANG, Jun Keun [KR/KR]; 501, Grandciel Villa, Bangbae 4-Dong, Scocho-Ku, Seoul, 137-064 (KR). CHUNG, Seok [KR/KR]; 201, 229-5, Yeonnam-Dong, Mapo-Ku, Seoul, 121-240 (KR). CHUNG, Chanil [KR/KR]; 106-2201, Samsung Raemian Apartment, Naeson-Dong, Uiwang-Si, Kyunggi-Do, 437-080 (KR). BANG, Hyun Woo [KR/KR]; 241-78, Shinlim 9-Dong, Kwanak-Ku, Scoul, 151-019 (KR). JO, Han Sang [KR/KR]; 103-405, Kummaeul Life Apartment, Gwiin-Dong, Dongan-Ku, Anyang-Si, Kyunggi-Do, 431-708 (KR).

- (74) Agent: KIM, Sun-young; Korea Coal Center, 10th Floor, 80-6, Susong-Dong, Chongro-Ku, Scoul, 110-727 (KR).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,

[Continued on next page]

(54) Title: DEVICE FOR COUNTING CELLS AND METHOD FOR MANUFACTURING THE SAME



(57) Abstract: Disclosed are a device for counting cells and a method for manufacturing the device. The device comprises a transparent upper substrate and a transparent lower substrate. Fine lattice patterns for counting cells are formed on the lower substrate. A space for filling the sample, including cells, is provided between the upper substrate and the lower substrate. A hole for injecting the samples into the space for filling the samples is provided in the upper substrate. The device is disposable, and the cost of manufacturing the device is low. It is easily to fill the samples into the filling space and to count cells by using the device. The upper substrate and the lower substrate are bonded, and thus, no cover is required.

WO 2005/008225 A1



FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Published:

with international search report